



HAWAII MACADAMIA NUTS

Final Season Estimates

FREQUENCY: January & July

RELEASED: July 8, 2003

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2002-2003 MACADAMIA NUT HARVEST AND VALUE LOWER

Hawaii's 2002-2003 macadamia nut crop is estimated at **52.0** million pounds net, wet-in-shell, 4.0 million pounds below last season's crop, according to the *Hawaii Agricultural Statistics Service (HASS)*. Although rains in late 2001 and early 2002 raised expectations for a larger crop, a return to drought-like conditions in Kona growing areas and increased insect infestations contributed to the lower output. Favorable rains in early

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MACADAMIA NUTS: Harvested Acreage and Net Production, State of Hawaii, 1946-02 Seasons

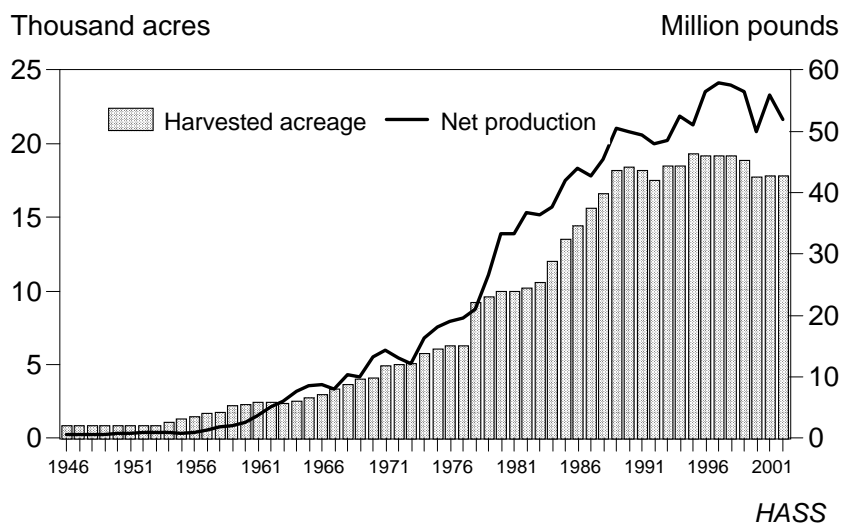


Table 1. MACADAMIA NUTS: Number of farms, acreage, yield, production, moisture, price, and value, State of Hawaii, 1998-2002 crop years

Crop year ¹	Farms	Acreage		Yield per acre ³	Production ⁴		Average moisture		Farm prices ⁴		Farm value ⁸
		In crop	Harvested ²		Gross ⁵	Net ⁶	Entire crop	Purchases only	Gross ⁷	Net	
	Number	----- Acres -----			---- 1,000 pounds ----		----- Percent -----		Cents per pound		1,000 dollars
1998-99	800	20,200	19,200	3.0	66,000	57,500	20.5	20.8	57.0	65.0	37,375
1999-00	750	19,900	18,900	3.0	64,000	56,500	19.3	19.3	59.1	67.0	37,855
2000-01	650	18,400	17,700	2.8	56,000	50,000	21.0	21.0	52.7	59.0	29,500
2001-02	650	18,000	17,800	3.1	62,000	56,000	21.2	21.9	53.3	59.0	33,040
2002-03	650	18,000	17,800	2.9	58,000	52,000	20.8	20.7	51.1	57.0	29,640

¹ Season begins July 1st and ends June 30th of the following year. ² Called bearing acreage prior to 1993-94 crop year. ³ Net production per bearing acre. ⁴ Wet in-shell basis, delivered to processors. ⁵ Gross pounds delivered for processing. ⁶ Gross pounds delivered for processing less total spoilage. ⁷ Farm value divided by gross production. ⁸ Net production multiplied by net farm price.

MORE ON THE 2002-2003 SEASON

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2002 benefitted orchards that had suffered through several dry years. Unusually high incidences of Southern Green Stink Bug damage were reported in Kona, Ka'u, and Kohala, with some individual orchards incurring severe losses. Lower returns also added to the problem by discouraging some growers from properly maintaining orchards and harvesting nuts. Overall yields averaged 2,920 pounds per acre (net, wet in-shell), down 230 pounds from the previous season.

TOTAL AND HARVESTED ACREAGE

Total acreage in crop for 2002-03 crop year was unchanged from the previous year at 18,000 acres. Virtually all acreage was harvested (17,800 acres), also the same as the previous year. There were an estimated 1.3 million macadamia nut trees on the 18,000 acres.

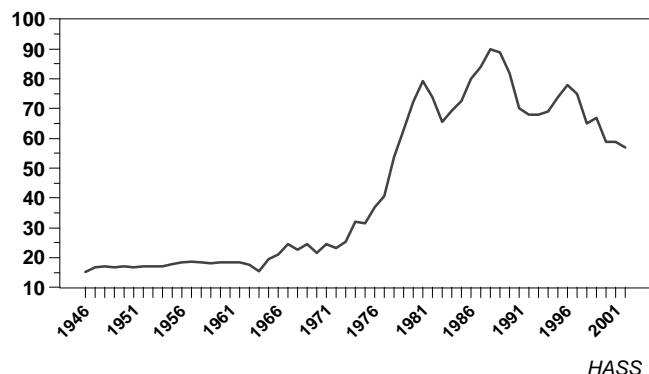
FARM PRICE AND VALUE

The farm price for net, wet in-shell macadamia nuts averaged 57.0 cents per pound for the 2002-2003 season, down 2.0 cents from the previous season's average, and the lowest since the 1978-79 crop. The farm value for the 2002-2003 crop is estimated at \$29.6 million, down 10 percent from last year. Increased foreign macadamia nut production continued to be cited as a factor in the downward pressure on grower prices last year.

USDA Foreign Agricultural Service macadamia nut report will be posted when data becomes available. See website: <http://www.fas.usda.gov/> or <http://www.nass.usda.gov/hi/rlsetoc.htm>

**MACADAMIA NUTS: Net Wet-In-Shell Farm Prices,
State of Hawaii, 1946-02 Seasons**

Cents per pound



2002-2003 CROP LOSS ASSESSMENT

Crop Loss Assessment for 2002-2003 was unavailable at time of printing.

U.S. TREE NUT REPORT



U.S. Nut Production Up 11 Percent, Value Up 35 Percent

The 2002 U.S. nut production (in-shell basis) rose to 1.45 million tons, an 11 percent increase from a year earlier. Almond production totaled 881,900 tons, up 31 percent from 2001. This represents a record high production for almonds in the U.S. The pistachio crop totaled 151,500 tons for a new record high. This is an increase of 88 percent over the crop of 80,500 tons realized in 2001. Hazelnut production, at 19,500 tons, is down 61 percent from 2001. Walnut production for 2002 is estimated at 282,000 tons, 8 percent below the previous year. Macadamia production, at 26,000 tons, is down 7 percent from 2001. Pecan production for 2002 is estimated at 86,500 tons, a 49 percent decrease from 2001.

The 2002 U.S. value of utilized nut production is estimated at 2.04 billion dollars, up 35 percent from 2001. The 2002 almond value, estimated at 1.19 billion dollars, is up 61 percent from 2001. Pistachio value for 2002, at 336 million dollars, is double the 2001 value because of increased production. Hazelnut value decreased 44 percent to 19.5 million dollars from the 2001 value. The pecan crop translated into an 18 percent reduction in value due to decreased production. The macadamia value, at 29.6 million dollars, is 10 percent below the previous year.

Table 3. U.S. NUT CROPS: Production, price, value, and utilization, 2001-2002

Crop State	Production		Price per unit		Value of utilized production		Utilization				Meat production of nuts sold shelled	
	2001	2002	2001	2002	2001	2002	Sold in-shell		Sold shelled ¹		2001	2002
	<i>Tons (in-shell basis)</i>		<i>Dollars per ton</i>		<i>1,000 dollars</i>		<i>----- Tons (in-shell basis) -----</i>					
HAZELNUTS (FILBERTS)												
Oregon	49,500	19,500	701.00	1,000.00	34,700	19,500	32,500	13,000	17,000	6,500	6,800	2,600
Washington ²												
Total	49,500	19,500	701.00	1,000.00	34,700	19,500	32,500	13,000	17,000	6,500	6,800	2,600
WALNUTS (ENGLISH)												
California	305,000	282,000	1,120.00	1,080.00	341,600	304,560	80,000	67,000	225,000	215,000	95,000	93,000
	<i>1,000 pounds (In-shell basis)</i>		<i>Dollars per pound</i>									
PISTACHIOS												
California	161,000	303,000	1.01	1.11	162,610	336,330	126,500	242,000	34,500	61,000	17,300	29,700
MACADAMIA NUTS												
Hawaii	56,000	52,000	.59	.57	33,040	29,640						
	<i>1,000 pounds (Shelled basis)</i>											
ALMONDS ³												
California	830,000	1,090,000	.91	1.10	740,012	1,189,870						
PECANS												
U.S.							24,600	12,000	313,900	160,900	135,000	73,000

¹ In-shell basis.

² Estimates discontinued in 2001.

³ Price and value are based on the edible portion of the crop only. Production includes inedible quantities of no value as follows: 2001 - 16.8 million pounds and 2002 - 8.3 million pounds.

HISTORICAL DATA

Table 4. MACADAMIA NUTS: Acreage, yield, production, price, and value, State of Hawaii, 1947-02

Year ¹	Acreage		Yield per acre ²	Production ³		Farm price ³		Farm value ⁷
	In crop	Harvested		Gross ⁴	Net ⁵	Gross ⁶	Net	
	----- Acres -----			----- 1,000 pounds -----		----- Cents per pound -----		1,000 dollars
1946-47	950	860	.7	NA	630	NA	15.2	96
1947-48	1,340	860	.8	NA	680	NA	16.9	115
1948-49	1,530	860	.8	NA	700	NA	17.0	119
1949-50	1,710	860	.8	NA	680	NA	16.9	115
1950-51	2,150	860	.9	NA	755	NA	17.0	128
1951-52	2,300	840	1.0	NA	850	NA	16.9	144
1952-53	2,770	840	1.1	NA	965	NA	17.1	165
1953-54	2,900	830	1.2	NA	970	NA	17.0	165
1954-55	3,030	1,080	.9	NA	930	NA	17.1	159
1955-56	3,030	1,300	.7	NA	903	NA	17.9	162
1956-57	3,200	1,470	.7	NA	1,027	NA	18.4	189
1957-58	3,120	1,680	.8	NA	1,329	NA	18.7	248
1958-59	3,290	1,750	1.0	NA	1,832	NA	18.5	339
1959-60	3,840	2,220	1.0	NA	2,102	NA	18.2	382
1960-61	3,820	2,300	1.1	NA	2,569	NA	18.4	472
1961-62	3,880	2,430	1.6	NA	3,751	NA	18.5	693
1962-63	4,100	2,460	2.1	NA	5,182	NA	18.4	954
1963-64	4,110	2,390	2.5	NA	6,003	NA	17.7	1,061
1964-65	4,510	2,520	3.1	NA	7,639	NA	15.6	1,192
1965-66	5,410	2,780	3.1	NA	8,522	NA	19.4	1,651
1966-67	6,700	2,950	3.0	NA	8,715	NA	21.0	1,830
1967-68	7,980	3,340	2.4	NA	7,966	NA	24.6	1,960
1968-69	8,520	3,680	2.8	NA	10,436	NA	22.8	2,379
1969-70	8,690	4,030	2.5	NA	10,049	NA	24.6	2,472
1970-71	8,735	4,115	3.2	NA	13,216	NA	21.7	2,868
1971-72	9,170	4,900	2.9	NA	14,448	NA	24.7	3,569
1972-73	9,250	5,000	2.6	NA	13,110	NA	23.3	3,055
1973-74	10,450	5,080	2.4	NA	12,124	NA	25.5	3,092
1974-75	9,890	5,760	2.8	NA	16,370	NA	32.0	5,238
1975-76	10,400	6,080	3.0	NA	18,210	NA	31.6	5,754
1976-77	10,250	6,300	3.0	NA	18,990	NA	36.9	7,007
1977-78	9,895	6,300	3.1	NA	19,680	NA	40.8	8,030
1978-79	10,200	9,200	2.3	NA	20,980	NA	53.8	11,287
1979-80	11,400	9,600	2.8	NA	26,660	NA	62.9	16,769
1980-81	13,300	10,000	3.3	NA	33,390	NA	72.4	24,174
1981-82	14,000	10,000	3.3	NA	33,360	NA	79.3	26,454
1982-83	15,600	10,200	3.6	NA	36,720	NA	73.9	27,136
1983-84	16,400	10,600	3.4	38,500	36,420	62.2	65.7	23,928
1984-85	17,500	12,000	3.1	40,500	37,700	64.4	69.2	26,088
1985-86	20,900	13,500	3.1	44,700	42,000	68.1	72.5	30,450
1986-87	21,200	14,400	3.1	46,600	44,000	75.5	80.0	35,200
1987-88	21,500	15,600	2.7	45,600	42,700	78.7	84.0	35,868
1988-89	21,900	16,600	2.7	49,000	45,500	83.6	90.0	40,950
1989-90	22,300	18,200	2.8	54,000	50,500	83.2	89.0	44,945
1990-91	22,600	18,400	2.7	54,300	50,000	75.5	82.0	41,000
1991-92	22,500	18,200	2.7	53,900	49,500	64.3	70.0	34,650
1992-93	20,500	17,500	2.7	53,000	48,000	61.6	68.0	32,640
1993-94	20,100	18,500	2.6	53,000	48,500	62.2	68.0	32,980
1994-95	20,200	18,500	2.8	58,000	52,500	62.5	69.0	36,225
1995-96	20,300	19,300	2.6	57,000	51,000	66.2	74.0	37,740
1996-97	20,200	19,200	2.9	63,000	56,500	70.0	78.0	44,070
1997-98	20,200	19,200	3.0	65,000	58,000	66.9	75.0	43,500
1998-99	20,200	19,200	3.0	66,000	57,500	57.0	65.0	37,375
1999-00	19,900	18,900	3.0	64,000	56,500	59.1	67.0	37,855
2000-01	18,400	17,700	2.8	56,000	50,000	52.7	59.0	29,500
2001-02	18,000	17,800	3.1	62,000	56,000	53.3	59.0	33,040
2002-03	18,000	17,800	2.9	58,000	52,000	51.1	57.0	29,640

¹ Season begins July 1st and ends June 30th of the following year. ² Net production per bearing acre. ³ Wet in-shell basis, delivered to processors. ⁴ Gross pounds delivered for processing. ⁵ Gross pounds delivered for processing less total spoilage. ⁶ Farm value divided by gross production. ⁷ Net production multiplied by net farm price.

U.S. IMPORTS

Table 5. U.S. Macadamia nut imports, by type, January - December 2001-2002

Name of city	2002					2001	
	Port of entry		Country of origin			Quantity	Custom value
	Quantity	Custom value	Name of country	Quantity	Custom value		
	<i>Metric tons</i>	<i>U.S. dollars</i>		<i>Metric tons</i>	<i>U.S. dollars</i>	<i>Metric tons</i>	<i>U.S. dollars</i>
SHELLED OR BLANCHED ¹							
Harmonized number: 0802.90.9810							
Detroit	9	41,875	Spain	2	10,977		
Los Angeles	510	3,648,592	Guatemala	414	2,867,226		
Miami	401	2,834,371	Costa Rica	128	845,882		
New York City	952	5,972,941	Brazil	465	2,828,819		
San Francisco	843	5,513,174	Japan	25	205,661		
Houston	634	3,605,449	China	250	1,736,560		
Honolulu	39	337,933	Australia	1,150	8,106,726		
Columbia-Snake	159	1,095,860	Kenya	171	1,218,430		
Chicago	267	1,753,461	Rep. of S.A.F.	1,495	9,012,875		
Seattle	42	332,306	Malawi	119	675,960		
Buffalo	5	32,072	Hong Kong	16	106,105		
Charleston	73	392,485	Colombia	14	83,803		
Norfolk	181	1,178,117	Canada	4	21,786		
Baltimore	11	77,455	Bolivia	3	16,100		
Philadelphia	130	920,819					
Total	4,256	27,736,910		4,256	2,7736,910	5,048	31,784,520
NOT SHELLED							
Harmonized number: 0802.90.8010							
Columbia-Snake	9	51,687	Malawi	15	93,438		
Miami	7	40,036	Guatemala	7	36,796		
San Francisco	131	734,462	Australia	140	786,149		
Los Angeles	15	93,438	Colombia	*	3,240		
Total	162	919,623		162	919,623	90	578,738
PICKLED OR OTHERWISE PREPARED OR PRESERVED							
Harmonized number: 2008.19.9010							
Detroit	34	349,840	China	1	6,450		
Miami	1	7,553	Singapore	1	6,510		
Buffalo	11	104,878	Costa Rica	*	2,635		
New York City	3	12,450	Australia	1	7,854		
Los Angeles	1	14,364	Canada	53	498,468		
Seattle	9	50,250	Rep. of S.A.F.	1	6,500		
			Colombia	*	4,918		
			South Korea	2	6,000		
Total	59	539,335		59	539,335	126	492,146

The conversion for 1 metric ton = 2,204.6 pounds.

* = less than 1,000 metric tons.

¹ Since June 1997, 0802.90.9010 was changed to 0802.90.9810.

Source: U.S. Department of Commerce.

Table 6. U.S. Macadamia nut imports, by type, 1984-2002

Year	Type		
	Shelled or blanched	Pickled or otherwise prepared or preserved	Not shelled
<i>Metric tons</i>			
1984	455	5	0
1985	687	31	0
1986	748	32	0
1987	948	107	0
1988	1,088	105	95
1989	1,927	307	86
1990	2,159	126	49
1991	1,427	96	39
1992	1,775	49	28
1993	2,047	84	131
1994	1,726	95	56
1995	2,597	76	34
1996	2,481	70	14
1997	2,325	63	266
1998	3,459	40	60
1999	4,730	109	109
2000	5,546	195	114
2001	5,048	126	90
2002	4,256	59	162

Source: U.S. Department of Commerce.

Table 7. U.S. Macadamia nut imports, by country of origin, 2002

Country of origin	Type			
	Shelled or blanched	Pickled or otherwise prepared or preserved	Not shelled	Total
<i>Metric tons</i>				
Australia	1,150	1	140	1,291
Bolivia	3	0	0	3
Brazil	465	0	0	465
Canada	4	53	0	57
Colombia	14	*	*	14
Costa Rica	128	*	0	128
Guatemala	414	0	7	421
Hong Kong	16	0	0	16
Japan	25	0	0	25
Kenya	171	0	0	171
China	250	1	0	251
Malawi	119	0	15	134
Rep. of S. Africa	1,495	1	0	1,496
Singapore	0	1	0	1
Spain	2	0	0	2
South Korea	0	2	0	2
Total	4,256	59	162	4,477

Source: U.S. Department of Commerce. * = Less than 1,000 metric tons

U.S. EXPORTS

Table 8. U.S. Macadamia nut exports, by country of destination, 2001-2002
Harmonized number: 2008.19.9010

Country of destination	2001		2002	
	Quantity	F.A.S. value	Quantity	F.A.S. value
	<i>Pounds</i>	<i>U.S. dollars</i>	<i>Pounds</i>	<i>U.S. dollars</i>
Australia	0	0	4,050	20,372
Bahrain	344	3,299	0	0
Canada	1,071,074	2,836,893	954,739	2,505,099
Chile	4,050	20,048	2,026	10,186
China	71,321	363,593	81,222	457,405
Colombia	0	0	1,078	3,868
Costa Rica	17,767	67,541	0	0
Fed Rep of Germany	489	4,095	1,102	10,453
France	21,303	44,164	128,892	412,905
Guatemala	1,576	4,180	0	0
Hong Kong	74,399	455,122	134,143	608,390
Indonesia	9,001	41,182	33,664	167,772
Japan	1,425,029	6,535,610	1,010,082	5,135,370
Luxembourg	35,750	92,843	0	0
Kuwait	0	0	2,500	10,475
Malaysia	44,551	220,523	97,357	493,748
Mexico	15,765	46,482	270,687	956,042
Netherlands	25,397	111,130	20,944	96,826
New Zealand	0	0	4,050	20,372
Niger	4,050	20,048	0	0
Norway	0	0	655	5,363
Republic of Philippines	53,649	266,375	40,540	156,688
Singapore	79,787	326,937	5,882	48,579
South Korea	134,088	527,215	39,317	215,497
Spain	9,921	28,125	18,225	91,672
Taiwan	103,301	358,541	21,235	105,174
Thailand	1,415	17,432	39,791	209,268
Trinidad & Tobago	2,976	9,022	0	0
Uzbekistan	0	0	23,852	112,043
Total	3,207,003	12,400,400	2,936,033	11,853,567

F.A.S. = Free Along Side.

Source: U.S. Department of Commerce.